



*Office of Laboratory Licensure,
Certification & Training*

3443 N Central Avenue, Suite 810
Phoenix, Arizona 85012
(602) 255-3454
(602) 255-1070 FAX
[E-mail: acharyp@azdhs.gov](mailto:acharyp@azdhs.gov)

Jane Dee Hull, Governor
James R. Allen, MD, MPH, Director

DATE: November 16, 1998

TO: Laboratory Director and QA Manager

FROM: Dr. Barbara J. Erickson, Ph.D., Bureau Chief

SUBJECT: Information Update #52

RE: EPA 5035 implementation. A Table of Contents to all the Information Updates published to date is [now available](#).

NOTE: If any problems occur with this web site, please call 1-800-952-0074 or (602) 255-3454 and ask for Technical Resources and Training. Thank You.
If you have any questions regarding the Updates, or if you have any technical questions that need clarification, please call or send [e-mail](#) to Prabha Acharya, Program Manager, Technical Resources and Training, at the Laboratory Licensure numbers/address.

1. Please note that our 1-800-952-0074 number has been changed to **1-800-952-0374**. This number gets connected to our main switch board and the appropriate extension number has to be dialed in order to be able to reach one of us. Our extension numbers were published in the Information Update #49, dated August 07, 1998.
2. Our Office has been getting many calls about the future of PE studies in Arizona. At this time, our Office has not made definite plans. The EPA is supposed to publish the guidelines for both the WS and WP alternates in the Federal Register and NIST is in the process of certifying the PE providers. Sometime in the first quarter of 1999, this Office will notify all Arizona licensed laboratories about performing the next round of PEs with a certified third party PE provider.
3. All Arizona laboratory auditors will be presenting a form to the laboratory director (or representative) upon initiation of an on-site inspection. This form is required under the new provisions of A.R.S 1034. This form details the authorities granted to the Department to perform on-site inspections, copy records and to charge fees. Also this form details the rights granted to the laboratory. This form must be signed by the laboratory director (or representative) and a copy will be given to the laboratory.
4. Our office has had many questions from the laboratories on the issue of the matrix spikes and batching for the 8000 series organic methods (reference; 8000B, Section 8.5). You should find the following clarification helpful.

For volatile water samples, a precision measurement in the form of a duplicate must be done with each 12-hour shift of analysis. This requirement can be met by either doing LCS/LCSD, MS/MSD or

sample duplicates. If the lab chooses to do a LCS/LCSD or sample duplicates, then a matrix spike must be done every 20 samples.

For volatile soil samples and other extracted samples (semi-volatiles), a duplicate must be included for the precision measurement with each extraction batch. An extraction batch is defined as a group of 20 samples or less, extracted at the same time. If more than 20 samples are extracted at the same time, then two pairs of duplicates must be extracted.

5. Our office is working with the Arizona Department of Environmental Quality (ADEQ) to bring the Arizona licensed laboratories into compliance with the holding times and the sampling containers for the EPA Method 5035.

Due to the recent promulgation of the Arizona Soil Remediation Levels (SRLs, December 1997), ADEQ anticipates that the majority of soil samples collected for VOCs will be preserved using the "High Level Concentration Sample" technique. The *Low Level Soil Samples* technique may be necessary at some sites, for example, where specific analytes of concern have SRLs below the achievable detection limit of the High Method. Please consult with your clients for their reporting limit requirements. The majority of the routine VOC soil samples can be analyzed using the *High Concentration Soil Samples* technique, with the reporting limits between 50 to 200 ug/kg. We have consulted with the EPA/MICE line regarding the use of the *High Level Soil Samples* technique for the quantitation of samples below 200 ug/kg. The staff at the EPA/MICE do not see any problem as long the state regulatory limits are met.

There are two extraction options for the *High Level Concentration Samples* technique. Field methanolic preservation of the subcore upon collection of the sample or lab methanolic preservation of the subcore collected in En Core[®] sampling devices. The En Core[™] collected samples can be held unpreserved at 4°C in the sampling device up to 48 hours before adding the extraction solvent. Enchem, the manufacturer of the En Core[®], has agreed to demonstrate the En Core[®] devices on 12/10/98 in Phoenix. Please contact Prabha Acharya @ (602) 255-3454 x221 if interested in attending. The implementation of EPA 5035 has been set for January 4, 1999.

6. The next quarterly Environmental Laboratory Advisory Committee meeting is scheduled for 12/03/98 at Casa Grande. Please call Lorraine Burrige @ (602) 255-3454 x202 for details.
7. The Technical Sub-committee of the Arizona Environmental Laboratory Advisory Committee in conjunction with ADEQ has developed a shortened standardized list for EPA Method 8260B. This consists of [58 compounds](#). 8260AZ is not a modification to the method criteria but is a shortened target analyte list for EPA Method 8260B. At a minimum these compounds should be reported whenever 8260B is requested in Arizona. The laboratories have an option to report this shortened list to their clients if it meets your client's needs. It is not required to get certification for 8260AZ, the referenced method would still be 8260B. The certification for 8260B is required to be able to report 8260AZ standardized list for compliance testing in Arizona. The clients might request additional compounds from 8260B or the complete list but at a minimum the laboratories should report this shortened list.
8. If you have any questions regarding the Updates, or if you have any technical questions that need clarification, please call or send [e-mail](#) to Prabha Acharya, Program Manager, Technical Resources and Training at the Laboratory Licensure. A [table of contents](#) to all the Information Updates published is also available.

Standardized 8260AZ --Analyte List

Acetone
Benzene
Bromobenzene
Bromochloromethane

Bromodichloromethane
Bromoform
Bromomethane
2-Butanone (MEK)

n-Butylbenzene
sec-Butylbenzene
tert-Butylbenzene
Carbon tetrachloride

Chlorobenzene
Chlorodibromomethane
Chloroethane
2-Chloroethyl vinyl ether

Chloroform
Chloromethane
2-Chlorotoluene
4-Chlorotoluene

1,2- Dibromoethane (EDB)
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene

Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane (1,2-DCA)
1,1-Dichloroethene

cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,2-Dichloropropane
1,3-Dichloropropane

2,2-Dichloropropane

1,1-Dichloropropene
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene

Ethylbenzene
2-Hexanone
4-Isopropyl toluene
Methylene chloride

4-Methyl-2-pentanone (MIBK)
Methyl-tert-butyl ether (MTBE)
n-Propylbenzene
Styrene

1,1,2,2-Tetrachloroethane
Tetrachloroethene
Toluene
1,1,1-Trichloroethane

1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,2,3-Trichlorobenzene

1,2,3-Trichloropropane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Vinyl acetate

Vinyl chloride
Xylenes, Total

Permission to quote from or reproduce materials from this publication is granted when due acknowledgment is made.

This message is available in alternative format by contacting Wesley Press at (602) 542-0357
The [Arizona Department of Health Services](#) does not discriminate on the basis of disability in administration of its programs and services as prescribed by Title II of the Americans with Disability Act of 1990 and Section 504 of the Rehabilitation Act of 1973.